

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

016887/1102

In re patent application of

Tomoharu TANAKA et al.

Serial No. Unassigned Group Art Unit: 2824

Filed: Concurrently herewith Examiner: V. Le

For: NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE AND
MEMORY SYSTEM USING THE SAME

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.56

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 C.F.R. §1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or is considered to be material to patentability as defined in 37 C.F.R. §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie prior art reference against the claims of the present application.

CONCISE EXPLANATION OF
RELEVANCE OF EACH DOCUMENT

Applicants are submitting herewith on Form PTO-1449, a listing of the documents cited by or submitted to the Patent Office in parent application Serial No. 09/722,474, filed November 28, 2000. The relevance of these documents are explained in the parent application.

As provided in 37 C.F.R. §1.98(d), copies of the documents are not being provided since they were previously cited by or submitted to the Patent Office in parent application Serial No. 09/722,474 filed November 28, 2000. Since this Information Disclosure Statement is being filed in compliance with 37 C.F.R. §1.97(b) within three (3) months of the filing date, no fee is required in connection with its filing.

Applicants respectfully request that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with M.P.E.P. §609.

Respectfully submitted,

MARCH 19, 2004
Date


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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)Attorney Docket No.
016887-1102SERIAL NO.
Unassigned

APPLICANT

Tomoharu TANAKA et al.

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GROUP: 2824

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	4,755,970	7/5/88	SCHRENK	365	201	
	A2	4,758,988	7/19/88	KUO	365	189	
	A3	4,763,305	8/9/88	KUO	365	200	
	A4	4,811,294	3/7/89	KOBAYASHI et al.	365	189	
	A5	4,881,200	11/14/89	URAI	365	189.04	
	A6	4,937,787	6/26/90	KOBATAKE	365	94	
	A7	4,943,948	7/24/90	MORTON et al.	365	201	
	A8	4,972,372	11/20/90	UENO	365	201	
	A9	5,077,691	12/31/91	HADDAD et al.	365	218	
	A10	5,086,413	2/4/92	TSUBOI et al.	365	230.01	
	A11	5,109,257	4/28/92	KONDO	357	23.5	
	A12	5,109,359	4/28/92	SAKAKIBARA et al.	365	189.07	
	A13	5,124,945	6/23/92	SCHRECK	365	185	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A14	5,134,583	7/28/92	MATSUO et al.	365	200	
	A15	5,136,544	8/4/92	ROZMAN et al.	365	201	
	A16	5,142,496	8/25/92	VAN BUSKIRK	365	201	
	A17	5,148,398	9/15/92	KOHNO	365	201	
	A18	5,153,880	10/6/92	OWEN et al.	371	10.2	
	A19	5,163,021	11/10/92	MEHROTRA et al.	365	185	
	A20	5,172,339	12/15/92	NOGUCHI et al.	365	201	
	A21	5,299,162	3/29/94	KIM et al.	365	201	
	A22	5,355,340	10/11/94	COKER et al.	365	200	
	A23	5,361,277	11/1/94	GROVER	375	107	
	A24	5,428,571	6/27/95	ATSUMI et al.	365	189.05	
	A25	5,483,484	1/9/96	ENDOH et al.	365	185.18	

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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			APPLICANT Tomoharu TANAKA et al.				
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A26	5,513,333	4/30/96	KYNETT et al.	395	430	
	A27	5,537,350	7/16/96	LARSEN et al.	365	185.330	
	A28	5,566,105	10/15/96	TANAKA et al.	365	185.22	
	A29	5,574,684	11/12/96	TOMOEDA	365	185.04	
	A30	5,574,688	11/12/96	McCLURE et al.	365	200	
	A31	4,597,062	06/24/86	ASANO et al	365	201	
	A32	4,819,212	04/04/89	NAKAI et al	365	230	
	A33	4,858,192	08/15/89	TATSUMI et al	365	200	
	A34	4,879,689	11/07/89	ATSUMI et al	365	201	
	A35	4,881,202	11/14/89	TSUJIMOTO et al	365	200	
	A36	5,025,418	06/18/91	ASOH	365	200	
	A37	5,126,973	06/1992	GARCIA ET AL.	365	200	
	A38	5,233,610	08/1993	NAKAYAMA	365	200	
FOREIGN PATENT DOCUMENTS							
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	A39	4,279,024	07/1981	SCHRENK	365	203	
	A40	5,172,338	12/1992	MEHROTRA	365	185	
	A41	5,434,819	07/1995	MATSUO et al.	365	189.07	
	A42	5,343,437	08/1994	JOHNSON et al.	365	230.3	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	A43	3-259499	11/91	JAPAN			
	A44	4-82090	03/92	JAPAN			
	A45	62-188100	08/87	JAPAN			
	A46	4-82091	03/92	JAPAN			
	A47	2029145	03/80	GREAT BRITAIN			
	A48	WO 90/12400	10/1990	WIPO			
	A49	41 10 371	10/1991	FED. REP. OF GERMANY			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	A50		M. Momodomi et al, A 4-Mb NAND EEPROM with Tight Programmed V _t Distribution, IEEE Journal of Solid-State Circuits, vol. 26, no. 4, April 1991, pp. 492-495
	A51		Patent Abstracts of Japan, vol. 14, no. 381, 16 August 1990, p. 1093.
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		APPLICANT Tomoharu TANAKA et al.	
		FILING DATE Concurrently Herewith	GROUP ART UNIT 2824

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	A52	4,794,564	12-27-1988	WATANABE			
	A53	5,297,096	03-22-1994	TERADA ET AL.			
	A54	5,357,462	10-18-1994	TANAKA ET AL.			
	A55	5,379,256	01-03-1995	TANAKA ET AL.			
	A56	5,544,117	08-06-1996	NAKAYAMA ET AL.			
	A57	3,917,933	11-04-1975	SCHEUNEMAN ET AL.			
	A58	4,456,995	06-26-1984	RYAN			
	A59	4,937,830	06-26-1990	KAWASHIMA ET AL.			
	A60	4,958,352	09-18-1990	NOGUCHI ET AL.			
	A61	5,452,311	09-19-1995	WELLS ET AL.			
	A62	4,980,888	12-25-1990	BRUCE ET AL.			
	A63	5,657,270	08-12-1997	OHUCHI ET AL.			
	A64	5,436,913	07-25-1995	YAMAMURA ET AL.			
	A65	4,460,982	07-17-1984	GEE ET AL.			
	A66	5,321,699	06-14-1994	ENDOH ET AL.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
	A67	59-110096 A	06-25-1984	JAPAN			X
	A68	2-142000 A	05-31-1990	JAPAN			X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A69	K. Arimoto et al., "A Speed-Enhanced DRAM Array Architecture with Embedded ECC", IEEE Journal of Solid-State Circuits, Vol. 25, No. 1, Feb. 1990, pages 11-17.
A70	K. Kobayashi et al., "A High-Speed Parallel Sensing Architecture for Multi-Megabit Flash E ² PROM's", IEEE Journal of solid-State Circuits, Vol. 25, No. 1, Feb. 1990, pages 79-83.
A71	M. Momodomi et al., "An Experimental 4-Mbit CMOS EEPROM with a NAND-Structured Cell", IEEE Journal of Solid-State Circuits, Vol. 24, No. 5, Oct. 1989, pages 1238-1243.
A72	M. Momodomi et al., "A High Density NAND EEPROM with Block-Page Programming for Microcomputer Applications", Proceedings of the IEEE 1989 Custom Integrated Circuits Conference, May 15-18, 1989, pages 10.1.1-10.1.4.

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							YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A73	T. Tanaka, et al., "A Quick Intelligent Program Architecture for 3V-only NAND-EEPROMs", 1992 Symposium on VLSI Circuits, Digest of Technical Papers, pages 20-21.					
	A74	M. Asakura et al., "An Experimental 1-Mbit Cache DRAM with ECC", IEEE Journal of Solid-State Circuits, Vol. 25, No. 1, Feb. 1990, pages 5-10.					
	A75	R. Vancu et al., "Section 4: Nonvolatile and Fast Static Memories: A 35 ns 256k CMOS EEPROM with Error Correcting Circuitry", 1990 IEEE International Solid-State Circuits Conference, Digest of Technical Papers, Feb. 1990, pages 64-65					
	A76	Lexar Media, Inc.'s Corrected Answer to Toshiba corporation's Amended Complaint for Patent Infringement, Case No. C03-00167 CRB, March 5, 2003, pages 1-13.					
	A77	Lexar Media's Amended Patent Local Rules 3-3 and 3-4 Disclosures, Case No. C03-00167, October 16, 2003, pages 1-33 with Exhibits A-I.					
	A78	C.L. Chen et al., "Error-Correcting Codes for Semiconductor memory Applications: A State-of-the-Art Review", IBM J. Res. Develop., Vol. 28, No. 2, March 1984, pages 124-134.					
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